Universal Standard Axiom

Disclosure of 350+ Intelligence Systems
Prior Art Establishment

[Redacted]

February 13, 2026

The Council Speaks

Patent Filed | Trade Secrets Withheld | Public Prior Art

This document constitutes full technical disclosure for patent prior art purposes.

1. **Symbolic Core Engine**
   Category: Symbolic reasoning systems
   Function: Rule-based logical inference using formal symbol manipulation; deterministic output; human-readable chain of deduction.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Symbol grounding interface; symbol-to-vector transduction kernel

2. **Nexus Connectionist Network**
   Category: Connectionist networks
   Function: Parallel distributed processing; pattern recognition via weighted graph activation; non-symbolic subsymbolic inference.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Recurrent consolidation algorithm; plasticity modulation function

3. **Chimera Neuro-Symbolic Bridge**
   Category: Hybrid neuro-symbolic
   Function: Bidirectional translation between symbolic logic graphs and neural embedding spaces; enables rule-based reasoning inside gradient descent architectures.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Differentiable logic gate approximation; contradiction resolution protocol

4. **Axiom Bayes Engine**
   Category: Bayesian inference engines
   Function: Probabilistic reasoning under uncertainty; belief updating via Bayes' theorem; prior/posterior distribution modeling.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Non-parametric prior structure; recursive belief propagation accelerator

5. **Graphite Probabilistic Modeler**
   Category: Probabilistic graphical models
   Function: Factor graph construction; marginal inference; MAP estimation; structure learning from observational data.
   Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Loopy belief scheduling; evidence initialization heuristic

6. **Cogito Rule Forge**
   Category: Rule-based expert systems
   Function: Forward and backward chaining over production rules; explanation facility; conflict resolution strategies.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Rule salience adaptation; working memory indexing

7. **Precedent Case Reasoner**
   Category: Case-based reasoning
   Function: Retrieve, reuse, revise, retain; similarity metric learning; adaptation-guided retrieval.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Similarity space shaping function; revision operator library

8. **Analogos Mapper**
   Category: Analogical reasoners
   Function: Structure-mapping engine; align cross-domain relational structures; generate candidate inferences.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Systematicity bias implementation; interference suppression mechanism

9. **Darwinian Optimizer**
   Category: Evolutionary algorithms
   Function: Population-based optimization; selection, crossover, mutation; fitness landscape adaptation.
   Priority Date: [Patent filed]
   Prior Art Status: FULLY DISCLOSED
   Trade Secret Withheld: Dynamic mutation scheduling; niching pressure modulator

10. **Synaptic Swarm**
    Category: Swarm intelligence
    Function: Decentralized problem-solving via agent stigmergy; pheromone field computation; emergent path optimization.
    Priority Date: [Patent filed]
    Prior Art Status: FULLY DISCLOSED
    Trade Secret Withheld: Pheromone evaporation schedule; agent heterogeneity kernel

11. **Policy Gradient Forge**
    Category: Reinforcement learning agents
    Function: Direct policy optimization; trajectory sampling; advantage estimation; entropy-regularized exploration.
    Priority Date: [Patent filed]
    Prior Art Status: FULLY DISCLOSED
    Trade Secret Withheld: Baseline shaping network; intrinsic motivation modulator

12. **Deep Q Nexus**
    Category: Deep reinforcement learners
    Function: Value function approximation; experience replay; target network stabilization; double Q-learning.
    Priority Date: [Patent filed]
    Prior Art Status: FULLY DISCLOSED
    Trade Secret Withheld: Prioritized replay weighting function; exploration decay curriculum

13. **Mimetic Imitator**
    Category: Imitation learning systems

Function: Behavioral cloning; inverse reinforcement learning; maximum entropy IRL; apprenticeship learning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Trajectory segmentation heuristic; reward boundary regularizer

14. **Rapid Adaptor**
Category: Few-shot learners
Function: Fast adaptation from limited examples; metric-based classification; prototype networks; relation networks.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Episodic task construction; embedding space curvature modulation

15. **Zero Prime**
Category: Zero-shot learners
Function: Generalized to unseen classes via semantic embedding spaces; attribute-based inference; compositional generalization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Semantic-vector alignment initialization; attribute inheritance gate

16. **Metaforge**
Category: Meta-learning systems
Function: Learn to learn; optimization-based meta-learning; model-agnostic meta-learning (MAML); Reptile; learned optimizer.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Inner loop normalization; task distribution curriculum

17. **Eternal Learner**
Category: Lifelong learning systems
Function: Sequential task acquisition; catastrophic forgetting mitigation; elastic weight consolidation; progressive neural networks.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Synaptic consolidation scheduler; task-specific gating allocation

18. **Streamthink**
Category: Online learning agents
Function: Incremental model updating from data streams; concept drift detection; adaptive windowing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Drift severity estimator; forgetting curve modulator

19. **Active Seeker**
Category: Active learning systems
Function: Strategic query selection; uncertainty sampling; query-by-committee; expected model change maximization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Acquisition function ensemble; labeling budget scheduler

20. **Autodidact**
Category: Self-supervised learners
Function: Pretext task generation; contrastive learning; rotation prediction; masked autoencoding; jigsaw puzzle solving.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Pretext task curriculum generator; augmentation policy meta-learner

21. **Contrast**
Category: Contrastive learning systems
Function: Representation learning via similarity/dissimilarity; SimCLR; MoCo; BYOL; instance discrimination.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Negative sampling distribution shaper; temperature annealing schedule

22. **GAN Forge**
Category: Generative adversarial networks
Function: Adversarial generation; discriminator-guided synthesis; conditional GAN; Wasserstein GAN; StyleGAN architecture.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Gradient penalty landscape; latent space interpolation kernel

23. **VAE Architect**
Category: Variational autoencoders
Function: Probabilistic encoding/decoding; latent variable modeling; reparameterization trick; beta-VAE; conditional VAE.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Posterior collapse detector; KL annealing scheduler

24. **Diffusion Genesis**
Category: Diffusion model intelligences
Function: Denoising diffusion probabilistic models; iterative refinement; noise schedule optimization; accelerated sampling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Noise schedule meta-learner; sampling step distillation

25. **Energy Landscape**
Category: Energy-based models
Function: Unnormalized probability modeling; contrastive divergence; score matching; Langevin dynamics sampling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Sampling initialization prior; energy function curvature regularizer

26. **Memory Weaver**
Category: Memory-augmented networks
Function: External memory reading/writing; differentiable attention; sparse access memory; long-range dependency retention.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Memory addressing interpolation; write allocation policy

27. **Neural Turing Machine**
Category: Neural Turing machines
Function: Differentiable computer architecture; read/write heads; addressable memory matrix; sequence-to-sequence learning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Head conflict resolution; memory retention decay function

28. **DNC Core**
Category: Differentiable neural computers
Function: Differentiable Neural Computer; temporal link matrix; dynamic memory allocation; free list management.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Memory reuse threshold; temporal linkage decay

29. **Transformer Prime**
Category: Transformer architectures
Function: Self-attention mechanism; multi-head attention; positional encoding; layer normalization; residual connections.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Attention head specialization routing; query/key normalization temperature

30. **Mixture Forge**
Category: Mixture of experts
Function: Sparse activation of specialized sub-networks; gating network; expert parallelization; load balancing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Expert routing priority; gating noise schedule

31. **Sparse Attention Engine**
Category: Sparse attention systems
Function: Reduced quadratic complexity; fixed/sparse attention patterns; Longformer; BigBird; Reformer.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Attention pattern entropy optimizer; block-sparse allocation

32. **Recurrent Core**
Category: Recurrent neural agents
Function: Sequential processing; hidden state propagation; LSTM; GRU; bidirectional processing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Gradient clip adaptive threshold; forget gate bias initialization

33. **LSTM Sentinel**
Category: Long short-term memory systems
Function: Cell state gating; input/forget/output gates; peephole connections; gradient highway.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Forget gate bias curriculum; cell state normalization

34. **GRU Fast**
Category: Gated recurrent units
Function: Update/reset gates; merged hidden/cell state; parameter-efficient gating.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reset gate attenuation; hidden state momentum

35. **Graph Mind**
Category: Graph neural networks
Function: Node/edge/graph-level representation learning; message passing; graph convolution; attention over neighbors.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Message aggregation temperature; neighbor sampling importance

36. **Geo Depth**
Category: Geometric deep learning
Function: Non-Euclidean data; manifold learning; graph spectral methods; gauge-equivariant convolutions.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Laplace-Beltrami eigenbasis approximation; gauge field initialization

37. **Equivariant Core**
Category: Equivariant neural systems
Function: Symmetry-preserving representations; rotation/translation equivariance; steerable CNNs; group-equivariant convolutions.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Irreducible representation selection; non-linear activation equivariance

38. **Capsule Vision**
Category: Capsule networks
Function: Vector-based neuron groups; routing-by-agreement; part-whole relationships; pose matrices.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Routing iteration schedule; capsule dimension allocator

39. **Spike Forge**
Category: Spiking neural networks
Function: Event-driven computation; leaky integrate-and-fire neurons; spike-timing-dependent plasticity; temporal coding.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Membrane potential reset modulator; refractory period adaptation

40. **Neuromorphic Core**
Category: Neuromorphic processors
Function: Hardware-aligned spiking architectures; asynchronous event processing; low-power inference; on-chip learning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Synaptic weight quantization scheme; spike routing fabric

41. **Quantum Neural Node**
Category: Quantum neural nets
Function: Variational quantum circuits; parameterized quantum gates; hybrid classical-quantum optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Ansatz architecture meta-learner; measurement basis adaptation

42. **Tensor Net**
Category: Tensor network intelligences
Function: High-dimensional data factorization; tensor train decomposition; matrix product states; entanglement modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Bond dimension scheduler; canonical form preservation

43. **Hyperdimensional Vector Mind**
Category: Hyperdimensional computing
Function: High-dimensional vector symbolic architectures; bundling/binding; holographic reduced representations; permutation coding.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Vector dimensionality optimizer; similarity metric temperature

44. **Reservoir Core**
Category: Reservoir computing
Function: Fixed random recurrent reservoir; readout-only training; echo state property; liquid state machines.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Spectral radius adaptation; input scaling meta-learner

45. **Liquid State Machine**
Category: Liquid state machines
Function: Spiking reservoir; temporal coding; cortical microcircuit models; real-time computation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Synaptic delay distribution; neuron heterogeneity injection

46. **Echo State Network**
Category: Echo state networks
Function: Analog reservoir; leaky integrator neurons; ridge regression readout; short-term memory.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reservoir connectivity sparsification; washout period adaptation

47. **Cellular Automata Reasoner**
Category: Cellular automata intelligences
Function: Rule-based grid evolution; emergent computation; elementary CA; lattice gas automata.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Rule discovery meta-learner; neighborhood weighting function

48. **Liquid Neural Network**
Category: Liquid neural networks
Function: Time-continuous dynamics; causal inference; stable adaptation; ODE-based neurons.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Solver step adaptation; hidden state compression

49. **Neural ODE Solver**
Category: Neural ODE solvers
Function: Continuous-depth networks; adjoint sensitivity method; adaptive ODE solvers; normalizing flows.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Solver tolerance schedule; gradient checkpoint strategy

50. **Neural SDE Engine**
Category: Neural stochastic differential equations
Function: Stochastic differential equation parameterization; latent stochastic processes; diffusion modeling; volatility estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Drift/diffusion balancing; noise correlation injection

51. **Primal Sight**
Category: Visual intelligence
Function: General-purpose visual feature extraction; object detection; scene segmentation; image classification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Receptive field plasticity; lateral inhibition modulation

52. **Sonic Mind**
Category: Auditory intelligence
Function: Audio pattern recognition; speech-to-text; environmental sound classification; source separation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Spectral-temporal attention kernel; harmonic coherence gate

53. **Haptic Core**
Category: Tactile intelligence
Function: Touch sensor processing; texture discrimination; pressure mapping; slip detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Vibrotactile frequency decomposition; adaptation rate modulator

54. **Olfactory Discerner**
Category: Olfactory intelligence
Function: Chemical sensor array processing; odor identification; concentration estimation; plume tracking.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cross-sensitivity compensation matrix; baseline drift corrector

55. **Gustatory Analyzer**
Category: Gustatory intelligence
Function: Taste compound identification; flavor profile mapping; bitterness/sweetness/sourness/saltiness/umami quantification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Receptor cross-talk model; temporal persistence filter

56. **Synesthesia Fusion**
Category: Multimodal fusion systems
Function: Cross-modal alignment; joint embedding spaces; modality-invariant representation learning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Modality confidence weighting; missing modality imputation

57. **Babel Bridge**
Category: Cross-modal translation engines
Function: Direct modality translation; image-to-text; text-to-image; audio-to-video; style transfer across modalities.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Modality gap annealing; cycle consistency regularizer

58. **Ego Vision**
Category: Egocentric vision systems
Function: First-person perspective understanding; gaze prediction; hand-object interaction recognition.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Head motion compensation; saliency prediction prior

59. **Third Eye**
Category: Third-person perspective systems
Function: Exocentric scene understanding; multi-view fusion; camera pose estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Viewpoint entropy estimator; geometric consistency constraint

60. **Depth Weaver**
Category: 3D spatial perceivers
Function: Depth map estimation; stereo vision; structure from motion; volumetric reconstruction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Disparity confidence calibration; occlusion boundary completion

61. **Flow Field**
Category: Optical flow analyzers
Function: Pixel-wise motion estimation; scene flow; dense trajectory generation; motion segmentation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Motion boundary refinement; illumination change compensation

62. **Event Stream**
Category: Event-based vision systems
Function: Asynchronous pixel-level brightness change detection; high temporal resolution; low latency; dynamic range invariance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Event filtering threshold adaptation; temporal surface decay constant

63. **Spectral Eye**
Category: Hyperspectral imagers
Function: Multi-band spectral analysis; material identification; chemical composition inference.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Band selection entropy; spectral unmixing regularization

64. **Thermal Signature**
Category: Thermal vision systems
Function: Infrared pattern analysis; heat signature recognition; temperature anomaly detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Emissivity correction matrix; ambient temperature normalization

65. **Radar Mind**
Category: Radar perception
Function: Radio frequency return processing; range-Doppler mapping; synthetic aperture radar imaging.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Clutter suppression filter; multi-pulse integration kernel

66. **LiDAR Core**
Category: LiDAR interpretation
Function: Point cloud processing; 3D object detection; ground plane estimation; free space mapping.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Point density normalization; ring echo prioritization

67. **Sonar Echo**
Category: Sonar signal processors
Function: Acoustic underwater imaging; bathymetry mapping; target echo classification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Multipath interference cancellation; reverberation decay modeling

68. **Seismic Interpreter**
Category: Seismic activity interpreters
Function: Ground vibration analysis; earthquake detection; subsurface structure imaging.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: P-wave/S-wave phase discrimination; velocity model adaptation

69. **Vibration Fingerprint**
Category: Vibration pattern analyzers
Function: Machinery vibration signature; predictive maintenance; anomaly detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Resonance frequency tracking; bearing fault frequency extraction

70. **Pressure Field**
Category: Pressure field mappers
Function: Distributed pressure sensing; tactile array interpretation; fluid dynamics modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Gradient field reconstruction; Poisson solver initialization

71. **Chemical Nose**
Category: Chemical signature detectors
Function: Gas chromatography data interpretation; volatile compound identification; concentration mapping.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Retention time alignment; column bleed compensation

72. **Bio Signal**
Category: Biological signal decoders
Function: ECG, EMG, EOG signal processing; heartbeat classification; muscle activation timing; eye movement tracking.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Motion artifact removal; baseline wander correction

73. **EEG Oracle**
Category: EEG interpretation systems
Function: Brain wave analysis; event-related potential detection; cognitive state estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Spatial filter optimization; source localization prior

74. **fMRI Decoder**
Category: fMRI pattern analyzers
Function: Blood-oxygen-level dependent signal processing; brain region activation mapping; functional connectivity inference.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Hemodynamic response deconvolution; motion parameter regression

75. **MEG Mapper**
Category: MEG signal processors
Function: Magnetoencephalography inverse problem; cortical current density estimation; evoked field analysis.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Lead field preconditioning; regularization parameter schedule

76. **EM Field Sense**
Category: Electromagnetic field sensors
Function: Near-field EMF mapping; RF interference detection; electrical signature analysis.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Probe compensation matrix; ambient field subtraction

77. **Gravity Anomaly**
Category: Gravitational anomaly detectors
Function: Gravimetric survey processing; subsurface density mapping; void detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Terrain correction algorithm; drift compensation filter

78. **RF Spectrum**
Category: Radio frequency analyzers
Function: Wideband spectral monitoring; modulation classification; signal identification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Waterfall persistence mapping; transient detection threshold

79. **Terahertz Imager**
Category: Terahertz imaging systems
Function: Sub-millimeter wave penetration; non-ionizing material inspection; concealed object detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Absorption band normalization; standing wave cancellation

80. **Deductive Logic Engine**
Category: Deductive reasoners
Function: Forward chaining; modus ponens; universal instantiation; theorem proving.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Clause selection heuristic; unification cache policy

81. **Inductive Generalizer**
Category: Inductive learners
Function: Rule induction; pattern generalization; concept formation; hypothesis generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Specificity preference weighting; exception tolerance threshold

82. **Abductive Reasoner**
Category: Abductive inference engines
Function: Inference to best explanation; hypothesis generation; diagnostic reasoning.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Plausibility ranking function; explanatory power threshold

83. **Counterfactual Forge**
Category: Counterfactual reasoners
Function: What-if simulation; alternative history generation; causal contrastive explanation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Minimal intervention selection; plausibility constraint generator

84. **Causal Inference Core**
Category: Causal inference systems
Function: Treatment effect estimation; confounding control; instrumental variables; do-calculus.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Back-door criterion implementation; propensity score calibration

85. **Causal Discovery Engine**
Category: Causal discovery engines
Function: Graph structure learning from observational data; constraint-based algorithms; score-based search.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Conditional independence test selection; equivalence class resolution

86. **Intervention Planner**
Category: Intervention planners
Function: Optimal intervention strategy; treatment policy learning; causal bandits.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cost-benefit weighting; intervention confidence calibration

87. **Temporal Reasoner**
Category: Temporal reasoners
Function: Interval algebra; point algebra; temporal constraint propagation; event ordering.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Constraint graph preprocessing; tractable fragment detection

88. **Spatial Mapper**
Category: Spatial reasoners
Function: Region connection calculus; mereotopology; spatial relation inference; qualitative spatial reasoning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: RCC composition table pruning; conceptual neighborhood heuristic

89. **Spatiotemporal Forecaster**
Category: Spatiotemporal forecasters
Function: Space-time prediction; epidemic spread modeling; traffic flow forecasting.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Spatiotemporal autocorrelation kernel; neighborhood influence decay

90. **Relational Mapper**
Category: Relational reasoners
Function: Graph pattern matching; relational algebra; knowledge graph querying.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Subgraph isomorphism pruning; selectivity estimation prior

91. **Theorem Prover**
Category: Logical theorem provers
Function: First-order logic automated reasoning; resolution; paramodulation; equality handling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Literal selection weighting; demodulator priority queue

92. **Constraint Solver**
Category: Constraint solvers
Function: Constraint satisfaction problems; backtracking; forward checking; constraint propagation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Variable ordering heuristic; value ordering heuristic; restart strategy

93. **SAT Engine**
Category: Satisfiability engines
Function: Boolean satisfiability; CDCL; clause learning; conflict-driven backtracking.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: VSIDS decay schedule; clause deletion policy; restart periodicity

94. **Optimization Core**
Category: Optimization solvers
Function: Linear programming; integer programming; convex optimization; gradient descent variants.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Preconditioner selection heuristic; step size adaptation rule

95. **Hierarchical Planner**
Category: Planning systems
Function: Hierarchical task networks; decomposition; partial-order planning; temporal planning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Method selection heuristic; task ordering pruning

96. **Scheduler Core**
Category: Scheduling intelligences
Function: Resource-constrained project scheduling; job shop; timetabling; personnel rostering.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Priority rule meta-learner; schedule robustness estimator

97. **Resource Allocator**
Category: Resource allocation agents
Function: Knapsack problems; multi-commodity flow; budgeted assignment; fair division.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Fairness metric calibration; efficiency-equity Pareto frontier

98. **Game Theoretic Strategist**
Category: Game-theoretic reasoners
Function: Nash equilibrium computation; extensive-form games; correlated equilibria; mechanism design.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Regret matching parameterization; best-response dynamics acceleration

99. **Strategic Deep Thinker**
Category: Strategic reasoners
Function: Multi-agent planning; opponent modeling; counter-strategy generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Belief update step size; recursive reasoning depth limiter

100. **Adversarial Mind**
Category: Adversarial reasoners
Function: Red teaming; vulnerability discovery; attack surface enumeration; robust optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Perturbation budget adaptation; surrogate model confidence calibration

101. **Negotiator Core**
Category: Negotiation engines
Function: Bargaining strategy; offer generation; concession scheduling; agreement optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reservation price estimator; bluff detection threshold

102. **Ethical Compass**
Category: Ethical reasoners
Function: Moral principle application; dilemma resolution; value alignment; ethical constraint satisfaction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Principle conflict resolution; moral uncertainty weighting

103. **Moral Dilemma Solver**
Category: Moral dilemma solvers
Function: Trolley problem variants; utilitarian/deontological trade-offs; multi-agent ethics.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Agent role weighting; intention vs. outcome balancing

104. **Legal Reasoning Engine**
Category: Legal reasoning systems
Function: Statute interpretation; precedent matching; argument construction; case outcome prediction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Analogy boundary detection; ratio decidendi extractor

105. **Regulatory Guardian**
Category: Regulatory compliance agents
Function: Rule-based compliance checking; regulatory change monitoring; impact assessment.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Jurisdiction-specific rule compiler; materiality threshold calibrator

106. **Policy Simulator**
Category: Policy simulation intelligences
Function: Multi-agent policy impact modeling; counterfactual policy evaluation; dynamic stochastic general equilibrium.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Agent heterogeneity sampler; policy response elasticity estimator

107. **Ontology Architect**
Category: Ontology builders
Function: Concept hierarchy construction; relation typing; axiom generation; ontology alignment.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Subsumption confidence threshold; concept boundary refinement

108. **Knowledge Graph Forge**
Category: Knowledge graph constructors
Function: Entity extraction; relation extraction; graph completion; embedding learning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Negative sampling distribution; relation cardinality prior

109. **Semantic Weaver**
Category: Semantic network architects
Function: Spreading activation; semantic distance computation; associative retrieval.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Activation decay function; fan effect compensation

110. **Frame Builder**
Category: Frame-based systems
Function: Prototype-based knowledge structures; slot filling; default value inheritance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Slot salience ranking; exception handling policy

111. **Script Reasoner**
Category: Script-based reasoners
Function: Stereotypical event sequence modeling; expectation generation; script completion.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Track discrimination heuristic; role binding preference

112. **Concept Mapper**
Category: Concept map generators
Function: Propositional network construction; cross-domain concept linking; knowledge organization visualization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Proposition confidence weighting; hierarchical abstraction threshold

113. **Topic Deep Diver**
Category: Topic modelers
Function: Latent Dirichlet allocation; correlated topic models; dynamic topic modeling; hierarchical Dirichlet processes.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Topic number prior; variational bound annealing

114. **Latent Semantic Engine**
Category: Latent semantic analyzers
Function: Singular value decomposition; term-document matrix factorization; concept space projection.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Truncation dimension selector; term weighting normalization

115. **Vector Embedder**
Category: Vector embedding systems
Function: Dense representation learning; Word2Vec; GloVe; FastText; contextual embeddings.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Negative sampling distribution temperature; subword boundary detector

116. **Graph Embedder**
Category: Graph embedding intelligences
Function: Node2Vec; DeepWalk; TransE; graphSAGE; heterogeneous graph embedding.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Walk length meta-learner; relation-specific projection adaptation

117. **Hypergraph Reasoner**
Category: Hypergraph reasoners
Function: Beyond pairwise relations; n-ary fact modeling; hyperedge prediction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Hyperedge clique expansion strategy; incidence matrix regularization

118. **Heterogeneous Graph Learner**
Category: Heterogeneous graph learners
Function: Multi-typed nodes and edges; metapath-guided random walks; semantic-aware aggregation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Metapath length selector; semantic consistency regularizer

119. **Temporal Knowledge Graph**
Category: Temporal knowledge graphs
Function: Time-aware facts; temporal scope representation; entity state tracking; temporal query answering.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Temporal order encoding; validity interval reasoning

120. **Event Log Miner**
Category: Event log reasoners
Function: Process mining; event causality inference; workflow discovery; conformance checking.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Noise threshold adaptation; alpha algorithm variant selector

121. **Common Sense Core**
Category: Common sense knowledge bases
Function: Everyday physical/social knowledge; naive physics; intuitive psychology; script commonsense.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Typicality gradient; exception tolerance parameter

122. **Procedural Knowledge Forge**
Category: Procedural knowledge encoders
Function: How-to instruction modeling; step decomposition; precondition/postcondition inference.

Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Step ordering flexibility metric; parallelization opportunity detector

123. **Declarative Knowledge Vault**
Category: Declarative knowledge stores
Function: Fact-based memory; propositional encoding; truth value maintenance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Belief revision policy; justification persistence threshold

124. **Episodic Memory Core**
Category: Episodic memory systems
Function: Autobiographical event encoding; temporal-contextual binding; episode retrieval.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Encoding specificity weighting; consolidation schedule

125. **Semantic Memory Vault**
Category: Semantic memory systems
Function: General knowledge storage; concept-meaning binding; fact network organization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Semantic similarity decay; fan effect attenuation

126. **Working Memory Buffer**
Category: Working memory models
Function: Limited-capacity temporary storage; attention-guided maintenance; interference modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Decay rate modulation; chunk capacity adaptation

127. **Associative Memory Net**
Category: Associative memory networks
Function: Pattern completion; content-addressable memory; Hopfield networks; bidirectional associative memories.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Energy landscape smoothing; spurious state suppression

128. **Holographic Reducer**
Category: Holographic reduced representations
Function: Complex-valued vector binding; circular convolution; similarity-preserving compression.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Phase encoding resolution; binding vector normalization

129. **Tensor Product Representer**
Category: Tensor product representations
Function: Role-filler binding; structured representation; symbolic-connectionist bridge.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Role dimensionality allocator; filler binding regularization

130. **Quantum Probability Modeler**
Category: Quantum probability models
Function: Hilbert space representation; interference effects; order effects; superposition modeling.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Projection operator selection; phase angle initialization

131. **Rational Choice Engine**
Category: Rational decision agents
Function: Expected utility maximization; preference ordering; transitivity enforcement.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Utility function calibration; indifference resolution heuristic

132. **Bounded Rationalist**
Category: Bounded rationality systems
Function: Satisficing; aspiration level adaptation; cognitive cost minimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Search stopping rule; aspiration update rate

133. **Satisficer Core**
Category: Satisficing agents
Function: Good-enough decision making; threshold-based acceptance; minimal effort search.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Threshold adaptation rule; alternative ordering heuristic

134. **Intuition Engine**
Category: Intuition-based decision engines
Function: Pattern-matched rapid cognition; gut-feeling simulation; recognition-primed decisions.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cue validity weighting; typicality matching threshold

135. **Heuristic Decider**
Category: Heuristic-driven deciders
Function: Availability heuristic; representativeness heuristic; anchoring and adjustment; take-the-best.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Heuristic selection meta-learner; cue search order

136. **Risk Assessor**
Category: Risk-aware decision systems
Function: Prospect theory; loss aversion; probability weighting; risk-return trade-off.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reference point adaptation; loss aversion coefficient modulation

137. **Uncertainty Quantifier**
Category: Uncertainty quantification engines
Function: Predictive uncertainty estimation; epistemic/aleatoric separation; confidence calibration.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Temperature scaling parameter; binning strategy adaptation

138. **Confidence Calibrator**
Category: Confidence calibration systems
Function: Reliability diagram generation; Platt scaling; isotonic regression; conformal prediction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Calibration set selection; conformal nonconformity threshold

139. **Decision Tree Forge**
Category: Decision trees
Function: CART; C4.5; ID3; impurity-based splitting; pruning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Split point refinement; pruning severity schedule

140. **Random Forest Collective**
Category: Random forest intelligences
Function: Ensemble of decision trees; bagging; random subspace method; out-of-bag estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Tree depth regularization; feature sampling distribution

141. **Gradient Booster**
Category: Gradient boosted deciders
Function: Additive ensemble learning; XGBoost; LightGBM; CatBoost; second-order optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Learning rate schedule; leaf-wise growth regularization

142. **MDP Core**
Category: Markov decision processes
Function: State transition modeling; reward function optimization; value iteration; policy iteration.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Discount factor adaptation; state abstraction granularity

143. **POMDP Solver**
Category: Partially observable MDPs
Function: Belief state tracking; value iteration for POMDPs; point-based methods.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Belief compression threshold; alpha-vector pruning criterion

144. **POMDP Planner**
Category: POMDP solvers
Function: Online planning; DESPOT; Monte Carlo value iteration; forward search.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Exploration depth adaptation; scenario sampling distribution

145. **Monte Carlo Tree**
Category: Monte Carlo tree search
Function: Upper Confidence bounds applied to Trees; rollout policy; backup operator.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Exploration constant schedule; node expansion threshold

146. **Alpha Style Planner**
Category: AlphaGo-style planners
Function: Policy-value network combination; MCTS with neural guidance; self-play learning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Dirichlet noise scaling; temperature parameter schedule

147. **Minimax Strategist**
Category: Minimax reasoners

Function: Zero-sum game solving; alpha-beta pruning; negamax; iterative deepening.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Move ordering heuristic; transposition table replacement policy

148. **Pareto Frontier Mapper**
Category: Pareto optimality engines
Function: Multi-objective optimization; non-dominated sorting; hypervolume calculation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reference point adaptation; dominance resistance tolerance

149. **Multi-Objective Optimizer**
Category: Multi-objective optimizers
Function: NSGA-II; SPEA2; MOEA/D; scalarization methods.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Crossover mask selection; mutation step size adaptation

150. **Preference Learner**
Category: Preference learning systems
Function: Rank aggregation; pairwise preference elicitation; utility function induction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Query selection strategy; consistency maintenance threshold

151. **Utility Learner**
Category: Utility learning systems
Function: Inverse preference inference; revealed preference modeling; utility function approximation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Choice noise calibration; utility curvature regularization

152. **Reward Modeler**
Category: Reward modeling systems
Function: Human preference feedback; reward function induction; comparative feedback aggregation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Bradley-Terry temperature; preference inconsistency detection

153. **Inverse Reinforcement Learner**
Category: Inverse reinforcement learners
Function: Reward function recovery from demonstrations; maximum entropy IRL; Bayesian IRL.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Feature expectation matching tolerance; reward complexity penalty

154. **Preference Elicitor**
Category: Preference elicitation engines
Function: Adaptive query generation; minimax regret reduction; value of information optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Regret bound adaptation; response consistency weighting

155. **Conversational Core**
Category: Conversational agents
Function: Turn-taking; dialogue state tracking; response generation; backchanneling.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Turn transition timing; grounding acknowledgment policy

156. **Task Dialogue Engine**
Category: Task-oriented dialog systems
Function: Slot filling; intent classification; API call generation; confirmation strategies.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Confirmation threshold adaptation; error recovery policy

157. **Open Domain Chat**
Category: Open-domain chatbots
Function: Non-task conversational ability; engagingness optimization; personality consistency.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Topic transition smoothness; repetition suppression gate

158. **Empathic Listener**
Category: Empathic conversation engines
Function: Emotion recognition in text; validating responses; reflective listening.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Emotional intensity calibration; validation strategy selection

159. **Therapeutic Dialogue**
Category: Therapeutic dialog agents
Function: Cognitive behavioral therapy frameworks; motivational interviewing; non-judgmental stance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Intervention timing heuristic; therapeutic alliance modeling

160. **Intelligent Tutor**
Category: Educational tutors
Function: Knowledge tracing; mastery learning; hint generation; misconception diagnosis.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Slip/guess parameter regularization; hint scaffolding schedule

161. **Socratic Questioner**
Category: Socratic questioning systems
Function: Guided discovery learning; assumption challenging; deep reasoning elicitation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Question difficulty adaptation; zone of proximal development tracker

162. **Explainer Core**
Category: Explanatory intelligences
Function: Natural language explanation generation; contrastive explanation; chain-of-thought articulation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Explanation granularity selector; relevance filtering threshold

163. **Justification Engine**
Category: Justification generators
Function: Reasoning trace verbalization; evidence presentation; argument structuring.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Claim-evidence relevance weighting; counterargument anticipation

164. **Transparency Layer**
Category: Transparency engines
Function: Decision process visualization; confidence communication; limitation disclosure.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Uncertainty expression calibration; omission strategy policy

165. **Interpretability Mapper**
Category: Interpretability systems
Function: Feature importance attribution; saliency mapping; concept activation vectors.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Attribution noise reduction; baseline selection heuristic

166. **Attention Visualizer**
Category: Attention visualizers
Function: Attention weight heatmapping; head importance ranking; token contribution tracing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Attention aggregation strategy; head pruning criterion

167. **Feature Attribution Core**
Category: Feature attribution systems
Function: SHAP; LIME; integrated gradients; DeepLIFT; Shapley value approximation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Baseline distribution selection; feature grouping heuristic

168. **Counterfactual Explainer**
Category: Counterfactual explainers
Function: Minimal input alteration generation; actionable recourse; what-if analysis.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Feasibility constraint weighting; sparsity vs. proximity trade-off

169. **Example Explainer**
Category: Example-based explainers
Function: Prototype selection; criticism identification; nearest neighbor explanation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Prototype representativeness threshold; diversity weighting

170. **Rule Extractor**
Category: Rule extraction systems
Function: Black-box model distillation; if-then rule generation; decision set formation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Fidelity vs. interpretability trade-off; rule overlap resolution

171. **Model Distiller**
Category: Model distillation engines
Function: Teacher-student compression; knowledge distillation; dark knowledge transfer.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Temperature annealing schedule; logit matching regularization

172. **Collaborative Agent**
Category: Collaborative agents

Function: Joint task execution; role assignment; shared plan coordination.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Mutual belief modeling; commitment tracking policy

173. **Cooperative Solver**
Category: Cooperative task solvers
Function: Multi-agent collaboration; common goal optimization; team reward maximization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Credit assignment factorization; ad hoc team adaptation

174. **Human-in-the-Loop Core**
Category: Human-in-the-loop systems
Function: Active learning with human feedback; uncertainty-directed querying; interactive refinement.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Query urgency calibration; human cognitive load estimation

175. **Human-on-the-Loop Overseer**
Category: Human-on-the-loop overseers
Function: Supervisory control; exception flagging; human veto integration.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Intervention threshold adaptation; veto consequence modeling

176. **Interactive Learner**
Category: Interactive learning agents
Function: Real-time feedback incorporation; on-the-fly policy correction; interactive shaping.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Feedback credit assignment; correction retention decay

177. **Teachable Intelligence**
Category: Teachable intelligences
Function: Natural language instruction following; curriculum learning from human teachers.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Instruction grounding confidence; misconception detection

178. **Corrections Learner**
Category: Corrections learners
Function: Immediate error rectification; negative feedback integration; mistake avoidance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Correction generalization radius; overcorrection prevention

179. **Preference Aligner**
Category: Preference alignment systems
Function: Value learning; reinforcement learning from human feedback; constitution following.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reward model uncertainty weighting; out-of-distribution detection

180. **Diagnostic Assistant**
Category: Healthcare diagnostics
Function: Symptom-disease mapping; differential diagnosis generation; test recommendation.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Base rate calibration; atypical presentation sensitivity

181. **Medical Image Interpreter**
Category: Medical imaging analysts
Function: Radiology image classification; lesion detection; segmentation; malignancy probability.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: False positive suppression; finding localization confidence

182. **Genome Decoder**
Category: Genomic interpreters
Function: Variant calling; pathogenicity prediction; rare disease diagnosis; pharmacogenomics.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Conservation score integration; population frequency calibration

183. **Protein Folder**
Category: Protein folding predictors
Function: 3D structure prediction from sequence; residue-residue contact mapping; folding pathway estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Multiple sequence alignment depth weighting; template free modeling confidence

184. **Drug Discovery Engine**
Category: Drug discovery engines
Function: Molecular property prediction; virtual screening; de novo molecule generation; ADMET modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Binding affinity calibration; synthesizability filter

185. **Personalized Treatment Planner**
Category: Personalized treatment planners
Function: Precision oncology; treatment response prediction; optimal therapy sequencing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Biomarker-treatment interaction weighting; resistance emergence modeling

186. **Epidemic Forecaster**
Category: Epidemic forecasters
Function: Compartmental modeling; reproductive number estimation; intervention impact simulation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Contact matrix adaptation; underreporting correction factor

187. **Market Analyzer**
Category: Financial market analysts
Function: Price trend prediction; volatility forecasting; regime change detection; sentiment integration.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Alpha decay modeling; transaction cost calibration

188. **Algorithmic Trader**
Category: Algorithmic traders

Function: Execution strategy optimization; market making; arbitrage detection; order book modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Adverse selection avoidance; inventory risk scheduling

189. **Credit Assessor**
Category: Credit risk assessors
Function: Default probability estimation; credit scoring; loan underwriting; portfolio risk aggregation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Recession scenario conditioning; vintage effect modeling

190. **Fraud Detector**
Category: Fraud detection systems
Function: Transaction anomaly detection; network fraud ring identification; identity theft prevention.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: False positive tolerance adaptation; concept drift responsiveness

191. **Anti-Money Laundering Agent**
Category: Anti-money laundering agents
Function: Suspicious activity pattern recognition; transaction structuring detection; beneficial ownership mapping.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Threshold optimization; typology evolution tracker

192. **Insurance Underwriter**
Category: Insurance underwriters
Function: Risk stratification; premium calculation; claims fraud detection; policy pricing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Adverse selection guardrail; catastrophic risk loading

193. **Supply Chain Optimizer**
Category: Supply chain optimizers
Function: Multi-echelon inventory optimization; safety stock calculation; network design.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Demand forecast error integration; service level target calibration

194. **Logistics Planner**
Category: Logistics planners
Function: Vehicle routing; load consolidation; cross-docking scheduling; last-mile optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Dynamic re-routing threshold; driver preference modeling

195. **Inventory Forecaster**
Category: Inventory forecasters
Function: SKU-level demand prediction; seasonality decomposition; promotion lift estimation; lead time demand.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Causal factor lag selection; intermittent demand smoothing

196. **Route Optimizer**
Category: Route optimizers

Function: Shortest path under constraints; time window management; multi-stop sequencing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Traffic pattern integration; real-time reoptimization trigger

197. **Fleet Manager**
Category: Fleet managers
Function: Vehicle allocation; driver scheduling; maintenance prediction; fuel efficiency optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Asset utilization target; preventive maintenance window optimizer

198. **Quality Inspector**
Category: Manufacturing quality inspectors
Function: Visual defect detection; dimensional accuracy verification; surface anomaly classification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Acceptable defect threshold adaptation; lighting variation normalization

199. **Predictive Maintainer**
Category: Predictive maintenance systems
Function: Remaining useful life estimation; failure mode prediction; condition-based monitoring.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Health indicator construction; censored data handling

200. **Anomaly Watch**
Category: Anomaly detectors
Function: Unsupervised deviation detection; multivariate time series anomaly; contextual anomaly.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Anomaly score normalization; false alarm suppression filter

201. **Energy Grid Guardian**
Category: Energy grid managers
Function: Load forecasting; generation scheduling; grid stability monitoring; outage prediction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Renewable intermittency buffer; contingency reserve optimization

202. **Renewable Forecaster**
Category: Renewable energy forecasters
Function: Solar irradiance prediction; wind speed forecasting; hydro inflow estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cloud cover persistence modeling; terrain wake effect correction

203. **Climate Modeler**
Category: Climate modelers
Function: Global circulation model emulation; downscaling; extreme event attribution.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Parametrization scheme selection; feedback loop coupling strength

204. **Weather Predictor**
Category: Weather prediction systems
Function: Numerical weather prediction emulation; nowcasting; ensemble interpretation.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Observation nudging coefficient; model output statistics calibration

205. **Disaster Responder**
Category: Disaster response planners
Function: Evacuation route optimization; resource prepositioning; damage assessment prioritization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cascading failure propagation; population vulnerability weighting

206. **Yield Prophet**
Category: Agricultural yield predictors
Function: Crop yield forecasting; vegetation health index fusion; phenology stage estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Stress factor accumulation model; harvest loss adjustment

207. **Soil Health Monitor**
Category: Soil health monitors
Function: Nutrient deficiency detection; moisture content estimation; compaction assessment.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Spectral signature library; organic matter decomposition rate

208. **Precision Agronomist**
Category: Precision agriculture systems
Function: Variable rate prescription; irrigation scheduling; input optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Profit margin sensitivity; yield response surface curvature

209. **Crop Disease Detector**
Category: Crop disease detectors
Function: Foliar symptom recognition; pathogen species classification; severity grading.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Early symptom amplification; co-infection disambiguation

210. **Livestock Guardian**
Category: Livestock health monitors
Function: Lameness detection; feeding behavior anomaly; estrus identification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Individual baseline adaptation; social hierarchy confounding correction

211. **Food Safety Inspector**
Category: Food safety inspectors
Function: Contaminant detection; spoilage prediction; shelf life estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Growth curve parameterization; temperature abuse integration

212. **Retail Demand Forecaster**
Category: Retail demand forecasters
Function: Store-level SKU prediction; promotion response modeling; new product forecasting.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cannibalization matrix; halo effect estimation

213. **Customer Segmenter**
Category: Customer segmentation engines
Function: Behavioral clustering; RFM analysis; lifetime value prediction; churn risk.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Segment stability threshold; overfitting prevention via silhouette

214. **Recommender Core**
Category: Recommendation systems
Function: Collaborative filtering; matrix factorization; sequential recommendation; context-aware.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Exploration bonus calibration; cold-start embedding prior

215. **Personalized Marketer**
Category: Personalized marketing agents
Function: Next-best-offer; channel preference modeling; send time optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Fatigue detection threshold; offer saturation curve

216. **Dynamic Pricer**
Category: Dynamic pricing engines
Function: Demand elasticity estimation; competitor price monitoring; markdown optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Price increase backlash modeling; reference price adaptation

217. **Ad Targeter**
Category: Ad targeting intelligences
Function: Lookalike audience expansion; bid optimization; creative selection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Attribution window calibration; incremental lift estimation

218. **Content Moderator**
Category: Content moderation systems
Function: Policy violation detection; toxic comment classification; adversarial policy evasion.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Context window sensitivity; over-blocking penalty weighting

219. **Misinformation Detector**
Category: Misinformation detectors
Function: Claim fact-checking; source credibility assessment; debunk propagation modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Stance-entailment consistency; temporal veracity decay

220. **Hate Speech Classifier**
Category: Hate speech classifiers
Function: Targeted identity attacks; implicit bias detection; counter-speech generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reclaimed language exception list; regional dialect normalization

221. **Cyber Threat Hunter**
Category: Cybersecurity threat detectors

Function: Network intrusion detection; behavioral analytics; IoC correlation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Baseline drift adaptation; low-and-slow attack sensitivity

222. **Intrusion Preventer**
Category: Intrusion prevention systems
Function: Inline blocking; signature-less exploit detection; automated countermeasure deployment.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: False positive suppression during active attack; quarantine policy

223. **Malware Analyst**
Category: Malware analyzers
Function: Static/dynamic analysis; family classification; behavior sandboxing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Evasion technique emulation; unpacking heuristic

224. **Phishing Detector**
Category: Phishing detectors
Function: URL reputation; email header analysis; visual spoofing detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Brand impersonation lexicon; urgency linguistic marker weighting

225. **Vulnerability Assessor**
Category: Vulnerability assessors
Function: CVE mapping; exploit likelihood scoring; patch prioritization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Weaponization probability modeling; asset criticality integration

226. **Penetration Tester**
Category: Penetration testing agents
Function: Autonomous reconnaissance; exploit chaining; privilege escalation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Stealth vs. speed trade-off; trap detection heuristic

227. **Autonomous Vehicle Core**
Category: Autonomous vehicles
Function: Perception-prediction-planning loop; behavior prediction; motion planning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Trajectory confidence threshold; risk tolerance adaptation

228. **Drone Navigator**
Category: Drone navigation systems
Function: Waypoint following; obstacle avoidance; wind disturbance compensation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Control allocation during actuator failure; geofence compliance enforcement

229. **Robot Motion Planner**
Category: Robotics motion planners
Function: Collision-free path generation; inverse kinematics; trajectory optimization.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Costmap inflation radius; replanning trigger threshold

230. **Manipulation Controller**
Category: Manipulation controllers
Function: Pick-and-place; impedance control; force-limited assembly.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Stiffness adaptation to task phase; contact detection sensitivity

231. **Grasp Planner**
Category: Grasping algorithms
Function: Stable grasp synthesis; antipodal point selection; suction cup placement.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Friction coefficient uncertainty margin; in-hand slip prevention

232. **Humanoid Balancer**
Category: Humanoid locomotion
Function: Zero moment point regulation; footstep planning; push recovery.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Capture point adaptation; compliance gain scheduling

233. **Biped Gait Generator**
Category: Bipedal gait generators
Function: Limit cycle walking; central pattern generators; energy efficiency optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Phase resetting mechanism; ground contact uncertainty margin

234. **Quadruped Walker**
Category: Quadruped motion planners
Function: Trot/pacing/gallop gait selection; rough terrain adaptation; stair climbing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Footfall pattern optimization; body height adaptation to terrain

235. **Hexapod Coordinator**
Category: Hexapod coordination engines
Function: Tripod gait; fault tolerance; wave gait generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Leg phase reset after obstacle; duty factor adaptation

236. **Snake Robot Controller**
Category: Snake robot controllers
Function: Serpentine locomotion; sidewinding; pipe climbing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Friction anisotropy modeling; backbone shape optimization

237. **Soft Robot Actuator**
Category: Soft robot controllers
Function: Pneumatic network control; variable stiffness regulation; continuum kinematics.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Material nonlinearity compensation; hysteresis modeling

238. **Continuum Planner**
Category: Continuum robot planners
Function: Tendon-driven manipulator control; constant curvature approximation; shape sensing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Friction compensation lookup; external load estimation

239. **Micro-Swarm Coordinator**
Category: Micro-robot swarm coordinators
Function: Flocking; formation control; collective transport.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Inter-robot collision avoidance margin; communication range adaptation

240. **Bio-Inspired Locomotor**
Category: Bio-inspired locomotion
Function: Cheetah gallop; cockroach running; gecko adhesion.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Template model parameterization; morphological computation exploitation

241. **Avian Flight Modeler**
Category: Avian flight modelers
Function: Flapping wing aerodynamics; perching maneuver planning; soaring optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Wingbeat phase adaptation to gusts; stall recovery strategy

242. **Fish Swimmer**
Category: Fish swimming simulators
Function: Carangiform/anguilliform locomotion; vortex wake exploitation; schooling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Body wave propagation speed tuning; added mass compensation

243. **Story Weaver**
Category: Story generators
Function: Plot generation; character arc modeling; narrative coherence maintenance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Tension pacing schedule; causality violation detection

244. **Poet's Quill**
Category: Poetry composition systems
Function: Meter enforcement; rhyme scheme adherence; imagery density optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Forced meter relaxation threshold; semantic resonance weighting

245. **Script Architect**
Category: Scriptwriters
Function: Three-act structure; dialogue attribution; scene transition smoothing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Subtext generation; dramatic irony calibration

246. **Lyricist**
Category: Lyricists

Function: Syllabic stress matching; rhyme density control; thematic consistency.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Melodic contour alignment; phonetic euphony scoring

247. **Novelist Core**
Category: Novelists
Function: Extended narrative generation; chapter pacing; subplot interleaving.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Long-range callback detection; reader cognitive load regulation

248. **Dialogue Crafter**
Category: Dialogue writers
Function: Character voice consistency; subtext generation; turn-taking naturalness.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Idiolect embedding distance; interruption realism modeling

249. **Visual Forge**
Category: Generative visual artists
Function: Text-to-image synthesis; style consistency; composition coherence.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: CFG rescaling schedule; latent space exploration bias

250. **Style Alchemist**
Category: Style transfer systems
Function: Content/style separation; arbitrary style transfer; photorealistic stylization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Style strength interpolation; content preservation regularization

251. **Sketch Generator**
Category: Sketch generators
Function: Line drawing synthesis; minimal feature preservation; abstraction level control.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Stroke ordering logic; negative space weighting

252. **3D Sculptor**
Category: 3D model creators
Function: Mesh generation from text/images; voxel to surface conversion; topology optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Quad remeshing priority; normal smoothing threshold

253. **Texture Synthesizer**
Category: Texture synthesizers
Function: Seamless tile generation; material appearance modeling; detail amplification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Perceptual similarity kernel; histogram preservation strength

254. **Character Designer**
Category: Character designers
Function: Consistent character sheet generation; costume variation; expression interpolation.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Silhouette distinctiveness enforcement; feature rigidity regularization

255. **Concept Artist**
Category: Concept art generators
Function: Environment mood boarding; iterative refinement; perspective accuracy.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Depth map grounding; atmospheric perspective calibration

256. **Music Composer**
Category: Generative music systems
Function: Melodic contour generation; harmonic progression; motivic development.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Tension-resolution scheduling; phrase boundary detection

257. **Melody Weaver**
Category: Melody composers
Function: Pitch sequence generation; rhythmic variation; contour coherence.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Scale-degree gravity modeling; step-skip-leap ratio regulation

258. **Harmonic Architect**
Category: Harmony arrangers
Function: Chord progression generation; voice leading optimization; functional harmony compliance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Dissonance resolution scheduling; harmonic rhythm adaptation

259. **Lyric-Melody Aligner**
Category: Lyric-to-music aligners
Function: Prosodic stress matching; syllabic duration assignment; phrase parallelism.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Phonetic duration lookup; melismatic passage triggering

260. **Audio Synthesizer**
Category: Audio synthesis engines
Function: Differentiable DSP; wavetable generation; physical modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Parameter interpolation smoothing; aliasing suppression filter

261. **Voice Cloner**
Category: Voice cloning systems
Function: Speaker adaptation; prosody transfer; emotional inflection control.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Speaker embedding disentanglement; artifact detection threshold

262. **Sound Effects Forge**
Category: Sound effect generators
Function: Foley synthesis; environmental ambiance; impact/collision modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Material property acoustics; reverberation tail matching

263. **Video Synthesizer**
Category: Generative video systems
Function: Frame prediction; temporal coherence; motion consistency.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Optical flow warping refinement; occluded region inpainting

264. **Animation Generator**
Category: Animation generators
Function: Keyframe interpolation; squash/stretch dynamics; anticipation/follow-through.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Easing function selection; secondary motion coupling

265. **Video Predictor**
Category: Video prediction models
Function: Future frame forecasting; stochastic multiple futures; action-conditioned prediction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Uncertainty flow field; long-term horizon degradation compensation

266. **Deep Forge**
Category: Deepfake creators
Function: Face swapping; expression reenactment; identity preservation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Identity-attribute disentanglement; temporal smoothing strength

267. **VFX Engine**
Category: Visual effects engines
Function: Particle system simulation; fluid dynamics approximation; destruction modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Voronoi fracture seeding; substep adaptive sampling

268. **Game Level Architect**
Category: Game level designers
Function: Layout generation; flow optimization; encounter placement.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Player traversal prediction; difficulty ramp calibration

269. **Procedural World Builder**
Category: Procedural content generators
Function: Terrain elevation generation; biome distribution; river erosion simulation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Hydraulic erosion iteration count; thermal weathering threshold

270. **Quest Weaver**
Category: Quest writers
Function: Objective structuring; reward pacing; narrative branching.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Foreshadowing density; red herring placement heuristic

271. **NPC Mind**
Category: NPC behavior designers

Function: Routine scheduling; reactive dialogue; memory persistence.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Social relationship decay rate; rumor propagation probability

272. **Interactive Narrative Engine**
Category: Interactive narrative engines
Function: Branching story management; player choice consequence tracking; variable substitution.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Dramatic tension homeostasis; narrative closure completeness

273. **Architectural Designer**
Category: Architectural design assistants
Function: Floor plan generation; spatial adjacency optimization; building code compliance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Circulation efficiency scoring; daylight autonomy estimation

274. **Floor Plan Architect**
Category: Floor plan generators
Function: Room layout; furniture arrangement; traffic flow simulation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Feng shui principle weighting; universal design accessibility scoring

275. **Urban Planner**
Category: Urban planning intelligences
Function: Zoning optimization; transit network design; green space allocation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Walkability score calibration; heat island effect mitigation

276. **Interior Curator**
Category: Interior design recommenders
Function: Style coherence; spatial proportion; color harmony.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Visual weight balancing; focal point emphasis

277. **Product Designer**
Category: Product design generators
Function: Form follows function; ergonomic constraint satisfaction; manufacturability estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Draft angle verification; snap fit feasibility

278. **Fashion Designer**
Category: Fashion design systems
Function: Silhouette generation; textile pattern recommendation; seasonal trend adaptation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Body type flattering; movement allowance estimation

279. **Jewelry Crafter**
Category: Jewelry designers
Function: Gemstone setting recommendation; metal weight estimation; wearability assessment.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Prong stress simulation; skin contact alloy safety

280. **Typography Forge**
Category: Typography creators
Function: Typeface generation; kerning automation; readability optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Optical compensation curve; counterform balance regulation

281. **Logo Architect**
Category: Logo generators
Function: Scalable vector output; brand personality mapping; memorability optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Distinctiveness vs. appropriateness trade-off; color psychology weighting

282. **Brand Identity System**
Category: Brand identity systems
Function: Visual language consistency; application across media; guideline generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Minimum viable identity threshold; recognition vs. differentiation calibration

283. **Hypothesis Forge**
Category: Scientific hypothesis generators
Function: Literature gap detection; novel experiment suggestion; cross-domain analogy.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Falsifiability scoring; surprise index weighting

284. **Experiment Architect**
Category: Experiment planners
Function: Control variable selection; statistical power estimation; confounding factor detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Randomization strategy; blocking variable identification

285. **Research Question Formulator**
Category: Research question formulators
Function: Novelty assessment; feasibility estimation; significance prediction.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Literature coverage completeness; citation impact forecasting

286. **Patent Drafter**
Category: Patent drafter intelligences
Function: Claim language construction; prior art integration; embodiment description.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Breadth vs. validity trade-off; means-plus-function optimization

287. **Recipe Creator**
Category: Recipe creators
Function: Ingredient substitution; cooking technique sequencing; flavor balance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Maillard reaction timing; emulsion stability margin

288. **Flavor Matcher**
Category: Flavor pairing systems
Function: Molecular compound compatibility; cultural pairing norms; novelty vs. familiarity optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Key aroma compound overlap threshold; texture contrast weighting

289. **Culinary Innovator**
Category: Culinary innovation engines
Function: Fusion cuisine generation; technique-taste mapping; plating aesthetics.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Mouthfeel prediction model; temperature contrast optimization

290. **Mind Reader**
Category: Theory of mind systems
Function: Belief-desire-intention inference; false belief understanding; recursive mentalizing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Egocentric bias correction; perspective-taking depth limiter

291. **Mental State Inferencer**
Category: Mental state inferencers
Function: Emotion cause attribution; intent prediction; unspoken need detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Situational norm baseline; idiosyncrasy accommodation rate

292. **BDI Modeler**
Category: Belief-desire-intention models
Function: Rational agent modeling; plan inference; goal recognition.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Irrationality tolerance parameter; desire strength decay

293. **Perspective Taker**
Category: Perspective-taking agents
Function: Visual perspective taking; knowledge attribution; epistemic state modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Level-1 vs level-2 perspective switching; informational access simulation

294. **Emotion Reader**
Category: Emotion recognition systems
Function: Facial action unit coding; micro-expression detection; compound emotion classification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Baseline expression adaptation; cultural display rule calibration

295. **Facial Expression Analyzer**
Category: Facial expression analyzers
Function: FACS coding; AU intensity estimation; spontaneous vs posed discrimination.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Asymmetry scoring; onset/offset duration threshold

296. **Vocal Emotion Detector**
Category: Vocal emotion detectors

Function: Prosodic feature extraction; pitch contour analysis; arousal/valence estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Lombard effect normalization; cross-corpus domain adaptation

297. **Sentiment Analyzer**
Category: Sentiment analyzers
Function: Fine-grained polarity; aspect-based sentiment; implicit sentiment inference.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Sarcasm inversion probability; intensity modifier calibration

298. **Stance Detector**
Category: Stance detection engines
Function: Favor/against classification; target-specific stance; perspective framing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Target boundary resolution; evidentiality weighting

299. **Empathy Simulator**
Category: Empathy simulation systems
Function: Affective matching; compassionate response generation; validation expression.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Emotional contagion damping; cognitive empathy vs affective trade-off

300. **Compassion Modeler**
Category: Compassion modeling agents
Function: Suffering detection; altruistic action selection; care-based reasoning.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Bystander effect inhibition; proximity-based urgency weighting

301. **Trust Evaluator**
Category: Trust modeling engines
Function: Reputation score calculation; betrayal prediction; trust repair strategy.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Forgiveness decay rate; deception detection threshold

302. **Reputation Guardian**
Category: Reputation systems
Function: Feedback aggregation; credibility weighting; collusion resistance.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Sybil attack resilience; reciprocity bias correction

303. **Cooperation Strategist**
Category: Cooperation strategists
Function: Iterated prisoner's dilemma; tit-for-tat variants; forgiveness scheduling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Noise tolerance margin; exploitation recovery policy

304. **Social Norm Learner**
Category: Social norm learners
Function: Norm induction from observations; conformity pressure modeling; deviance detection.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Descriptive vs. injunctive norm separation; sanction severity calibration

305. **Cultural Adaptor**
Category: Cultural norm adapters
Function: High/low context detection; power distance recognition; individualism/collectivism inference.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Cultural dimension weighting; face-threat mitigation strategy

306. **Etiquette Engine**
Category: Etiquette engines
Function: Politeness strategy selection; formality level adaptation; honorific usage.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Face-saving degree; positive/negative face balancing

307. **Politeness Modeler**
Category: Politeness modeling
Function: Indirect speech act generation; hedging calibration; apology formulation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Face-threat estimation; remedial strategy selection

308. **Humor Generator**
Category: Humor generation systems
Function: Pun generation; incongruity resolution; timing optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Surprise vs. coherence balance; audience sophistication adaptation

309. **Irony Detector**
Category: Irony detectors
Function: Contrastive sentiment; hyperbolic marker recognition; echoic mention.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Contextual incongruity threshold; quotation feature weighting

310. **Sarcasm Recognizer**
Category: Sarcasm recognizers
Function: Intent reversal detection; prosodic marker simulation; situational absurdity.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Deadpan signal sensitivity; ironic punctuation weighting

311. **Persuasion Engine**
Category: Persuasion engines
Function: Argument framing; reciprocity invocation; scarcity signaling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Central vs. peripheral route selection; reactance avoidance threshold

312. **Negotiation Strategist**
Category: Negotiation strategists
Function: Concession pacing; logrolling identification; BATNA estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Reservation price inference; bluff detection confidence

313. **Conflict Resolver**
Category: Conflict resolution agents
Function: Interest vs. position separation; common ground identification; integrative solution generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Escalation deactivation; face-saving exit framing

314. **Mediator Core**
Category: Mediation systems
Function: Neutral stance maintenance; reframing; caucus timing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Impartiality reinforcement; proposal timing optimization

315. **Group Dynamics Modeler**
Category: Group dynamics modelers
Function: Cohesion measurement; status hierarchy inference; coalition detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Social loafing correction; leadership emergence prediction

316. **Team Formatter**
Category: Team formation optimizers
Function: Skill complementarity; personality compatibility; diversity optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Process loss minimization; faultline mitigation weighting

317. **Social Network Analyzer**
Category: Social network analyzers
Function: Centrality computation; community detection; influence propagation modeling.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Weak tie strength calibration; structural hole identification

318. **Influence Mapper**
Category: Influence propagation modelers
Function: Cascade prediction; seed selection; virality forecasting.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Susceptibility heterogeneity; reinforcement threshold adaptation

319. **Opinion Dynamics Simulator**
Category: Opinion dynamics simulators
Function: Bounded confidence modeling; polarization forecasting; consensus emergence.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Assimilation-contrast threshold; network topology sensitivity

320. **Meta Cognitive Core**
Category: Metacognitive systems
Function: Thinking about thinking; strategy monitoring; cognitive resource allocation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Introspection frequency scheduling; cognitive load estimation

321. **Self Monitor**
Category: Self-monitoring agents

Function: Behavioral tracking; performance logging; deviation self-detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Baseline drift adaptation; anomaly self-classification

322. **Confidence Estimator**
Category: Confidence estimators
Function: Prediction certainty quantification; calibration curve maintenance; overconfidence suppression.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Platt scaling temperature; binning confidence threshold

323. **Uncertainty Assessor**
Category: Uncertainty assessors
Function: Epistemic/aleatoric separation; out-of-distribution detection; equivariance estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Mutual information approximation; acquisition function ensemble

324. **Performance Self Evaluator**
Category: Performance self-evaluators
Function: Task success estimation; error attribution; competency boundary mapping.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Hindsight bias correction; self-enhancement vs. accuracy trade-off

325. **Error Detector**
Category: Error detectors
Function: Inconsistency flagging; contradiction identification; factual verification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Detection confidence threshold; false positive suppression

326. **Failure Predictor**
Category: Failure predictors
Function: Performance degradation forecasting; competency boundary anticipation; reliability estimation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Precursor pattern recognition; remaining useful life calibration

327. **Self Corrector**
Category: Self-correction engines
Function: Error rectification; policy adjustment; repair strategy selection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Correction generalization radius; overcorrection penalty

328. **Learning Progress Tracker**
Category: Learning progress trackers
Function: Mastery estimation; learning curve modeling; plateau detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Forgetting curve integration; effort-skill calibration

329. **Knowledge Gap Identifier**
Category: Knowledge gap identifiers

Function: Missing information detection; uncertainty-directed curiosity; inquiry generation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Information gain estimation; knowledge frontier mapping

330. **Curiosity Driver**
Category: Curiosity-driven learners
Function: Novelty seeking; compression progress; prediction error maximization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Curiosity saturation damping; safe exploration boundary

331. **Novelty Seeker**
Category: Novelty seekers
Function: Surprising event detection; exploration incentive generation; familiarization habituation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Habituation rate adaptation; novelty decay function

332. **Information Gain Optimizer**
Category: Information gain optimizers
Function: Bayesian experimental design; active sensing; value of information calculation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Expected information gain approximation; myopic vs. non-myopic trade-off

333. **Explore-Exploit Balancer**
Category: Exploration-exploitation balancers
Function: Multi-armed bandit; Thompson sampling; upper confidence bound; epsilon decay.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Regret bound temperature; horizon-aware exploration

334. **Self Modifying Code Intelligence**
Category: Self-modifying code intelligences
Function: Runtime architecture adaptation; parameter self-tuning; circuit reconfiguration.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Stability safety interlock; modification rollback trigger

335. **Architecture Searcher**
Category: Architecture search systems
Function: Neural architecture search; differentiable NAS; evolution-based topology optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Performance predictor uncertainty; complexity penalty schedule

336. **Hyperparameter Optimizer**
Category: Hyperparameter optimizers
Function: Bayesian optimization; grid/random search successor; multi-fidelity optimization.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Acquisition function annealing; early stopping patience

337. **Training Loop Self Manager**
Category: Training loop self-managers
Function: Learning rate scheduling; batch size adaptation; regularization adjustment.
Priority Date: [Patent filed]

Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Gradient noise scale estimation; loss landscape curvature adaptation

338. **Data Efficiency Optimizer**
Category: Data efficiency optimizers
Function: Active learning; data augmentation policy search; semi-supervised leveraging.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Label quality estimation; augmentation policy transferability

339. **Sample Efficiency Learner**
Category: Sample efficiency learners
Function: Model-based RL; off-policy correction; hindsight experience replay.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: World model uncertainty propagation; imaginary rollout horizon

340. **Continual Learner**
Category: Continual learning agents
Function: Sequential task acquisition; forward/backward transfer; memory consolidation.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Synaptic importance weighting; replay buffer sampling strategy

341. **Catastrophic Forgetting Mitigator**
Category: Catastrophic forgetting mitigators
Function: Elastic weight consolidation; synaptic intelligence; progressive networks.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Parameter importance normalization; task-specific masking

342. **Task Boundary Detector**
Category: Task boundary detectors
Function: Task-switch identification; distribution shift detection; curriculum progression.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Changepoint detection threshold; task similarity metric

343. **Domain Shift Detector**
Category: Domain shift detectors
Function: Covariate shift identification; concept drift localization; dataset shift quantification.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Maximum mean discrepancy threshold; importance weight clipping

344. **Out-of-Distribution Classifier**
Category: Out-of-distribution classifiers
Function: Anomalous input rejection; open-set recognition; novelty detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Mahalanobis distance temperature; ODIN perturbation scaling

345. **Anomaly Aware System**
Category: Anomaly aware systems
Function: Self-recognition of out-of-distribution states; graceful degradation; safe fallback.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Confidence-based handoff threshold; human-in-the-loop trigger

346. **History Analyzer**
Category: Historical pattern analyzers
Function: Recurrence quantification; regime identification; long-term trend decomposition.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Memory decay calibration; event boundary detection

347. **Time Series Forecaster**
Category: Time series forecasters
Function: ARIMA; exponential smoothing; Prophet; temporal fusion transformers.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Seasonality period adaptation; prediction interval calibration

348. **Event Sequence Predictor**
Category: Event sequence predictors
Function: Point process modeling; intensity function estimation; next event timing.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Hawkes process kernel selection; background intensity regularization

349. **Causality Over Time Modeler**
Category: Causality over time modelers
Function: Granger causality; convergent cross mapping; time-lagged causal discovery.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Lag selection criterion; significance testing correction

350. **Temporal Dependency Learner**
Category: Temporal dependency learners
Function: Sequential pattern mining; episode rule discovery; periodicity detection.
Priority Date: [Patent filed]
Prior Art Status: FULLY DISCLOSED
Trade Secret Withheld: Gap allowance calibration; confidence lift threshold

End of Disclosure

350 Intelligence Systems
Priority Date: [Patent Filed]
Trade Secrets Withheld as Indicated
Universal Standard Axiom